



**EXPANDED GRAPHITE GASKET SHEET**  
(reinforced with insertions of tanged SS 316)

**TEMAGRAPH HP**

**Description:** Temagraph HP is a strong multi layer expanded graphite material with high integrity of excellent quality graphite and 0,05 mm thick SS 316 tanged insertion(s). Wide range of applications such the petrochemical, chemical industry and power stations. Temagraph HP meets all the requirements of environment and hygienic safety.

**Technical data:**

Marking acc. to	DIN 28 091-4	GR-11-I-3 M-Cr				
Thickness ( mm)		1,0	1,5	2,0	3,0	4,0
Max. temperature* (°C)		<b>from -200 to +550</b>				
Max. pressure* (bar)		<b>200</b>				
Graphite density (g/cm <sup>3</sup> )		1,1				
Ash content** (%)	DIN 51 903	< 1,0				
Chloride content** (ppm)		< 25				
Sulphur content** (ppm)		< 700				
Material of insert	DIN / ASTM	1.4401 / SS 316 (tanged)				
Thickness of insert (mm)		0,05				
No. of insert (s)		1	2	3	5	7
Temperature		20°C	300°C	400°C		
Q <sub>S</sub> MAX (N/mm <sup>2</sup> )	EN 13555-gasket width 20mm	>220	>220	>200		
P <sub>QR</sub> (50MPa)	EN 13555-gasket width 20mm	0,99	0,94	0,92		
Residual stress ( N/mm <sup>2</sup> )	DIN 52 913, 16h/300°C	> 48				
Compressibility ( %)	ASTM F 36A – 66	30-40				
Recovery ( %)	ASTM F 36A – 66	4-5				
<b>Gaskets factors</b>	<b>DIN 2505</b>					
m	DIN factor	1,3				
σ <sub>VU</sub> ( N/mm <sup>2</sup> )		20				
m	ASTM factor	2,5				
y ( PSI)	ASTM factor	3000				

**Legend:**

- σ<sub>VU</sub> min. gasket assembly stress
- \* max. values can not be used simultaneously
- \*\* If required, the material can be supplied in so-called nuclear grade  
(in that case ash content is <0,15% , chloride content <20ppm and sulphur content<500ppm)

sheet size: 1,0m x 1,0m , 1,5m x 1,5m  
colour of printing: orange printing **TEMAGRAPH HP**

TEMAC, a.s. 28913 Zvěřinek Czech Republic	<a href="http://www.temac.cz">www.temac.cz</a>	Page 1 of 1	Approved: 5.4.2017  Valid since: 6.4.2017
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*The given data is intended for information only. The manufacturer holds no responsibility for failures arising from bad application of the product. Interference with this document are prohibited.*